

ABSTRACT OF THE DISCLOSURE

Disclosed is a mobile communication network employing a plurality of digital optical links for providing high speed, more capacity and multimedia services which includes a base station (BS) controller for managing the overall control of the mobile network and coupled to a base transceiver system (BTS) via a first E1/T1 link; a BTS controller coupled to the BS controller via a second E1/T1 link for managing the channel capacity of multiple base transceiver system operable by the base station controller; a plurality of optical fiber links coupled to said BTS controller through optical coupling; a plurality of compact base transceiver systems (BTSs) having a plurality of optical transponders arranged in space relation with each other along each of said optical fiber links; said optical transponders for receiving an up-link signal at one frequency to be retransmitted as a down-link signal and for amplifying said up-link signal at another frequency to other compact BTS along said optical fiber link.

15